Presentation
to the

TransPORT Stakeholder's Luncheon

by

Colonel Robert Sinkler
Commander, Rock Island District

December 6, 2007

U.S. ARMY CORPS OF ENGINEERS

Rock Island District

US Army Corps of Engineers®

SERVING FIVE RIVER BASINS IN FIVE STATES

FLOOD DAMAGE REDUCTION

NAVIGATION

EMERGENCY MANAGEMENT

RECREATION

ECOSYSTEM RESTORATION

MINNESOTA

WISCONSIN

IOWA

MISSOURI

ILLINOIS

Mississippi River

Turkey River

Maquoketa River

Wapsipinicon River

Skunk River

Des Moines River

Iowa River

Cedar River

Rock River

Illinois River

Kankakee River

Iroquois River

Sugar River

Fox River

Vermilion R.

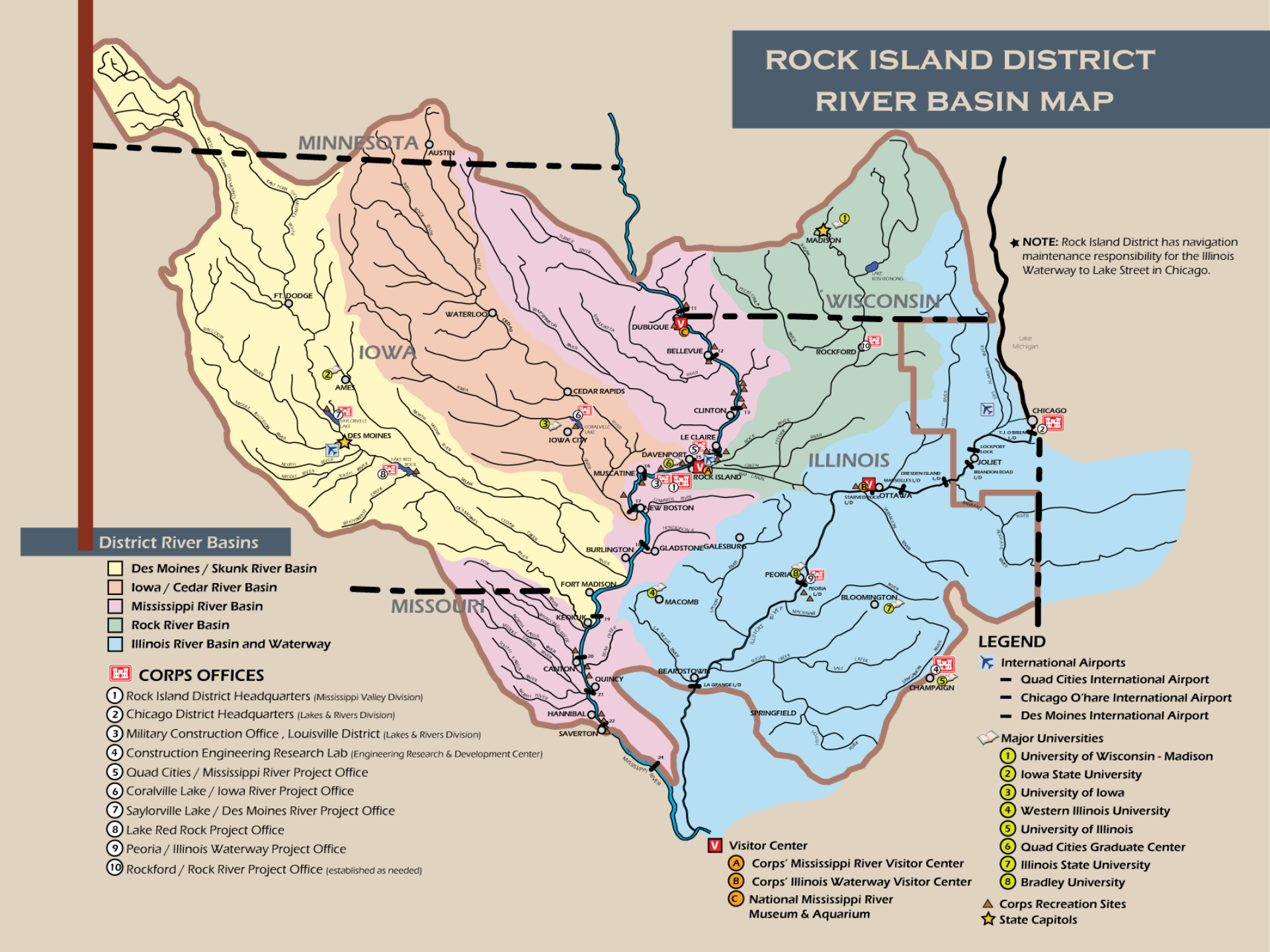
Mackinaw River

Sangamon River

A LEADER IN INTEGRATED WATER RESOURCES MANAGEMENT

At The Heart of the Upper Mississippi River System

ROCK ISLAND DISTRICT RIVER BASIN MAP



★ **NOTE:** Rock Island District has navigation maintenance responsibility for the Illinois Waterway to Lake Street in Chicago.

District River Basins

- Des Moines / Skunk River Basin
- Iowa / Cedar River Basin
- Mississippi River Basin
- Rock River Basin
- Illinois River Basin and Waterway

CORPS OFFICES

1. Rock Island District Headquarters (Mississippi Valley Division)
2. Chicago District Headquarters (Lakes & Rivers Division)
3. Military Construction Office , Louisville District (Lakes & Rivers Division)
4. Construction Engineering Research Lab (Engineering Research & Development Center)
5. Quad Cities / Mississippi River Project Office
6. Coralville Lake / Iowa River Project Office
7. Saylorville Lake / Des Moines River Project Office
8. Lake Red Rock Project Office
9. Peoria / Illinois Waterway Project Office
10. Rockford / Rock River Project Office (established as needed)

Visitor Center

- A Corps' Mississippi River Visitor Center
- B Corps' Illinois Waterway Visitor Center
- C National Mississippi River Museum & Aquarium

LEGEND

International Airports

- Quad Cities International Airport
- Chicago O'hare International Airport
- Des Moines International Airport

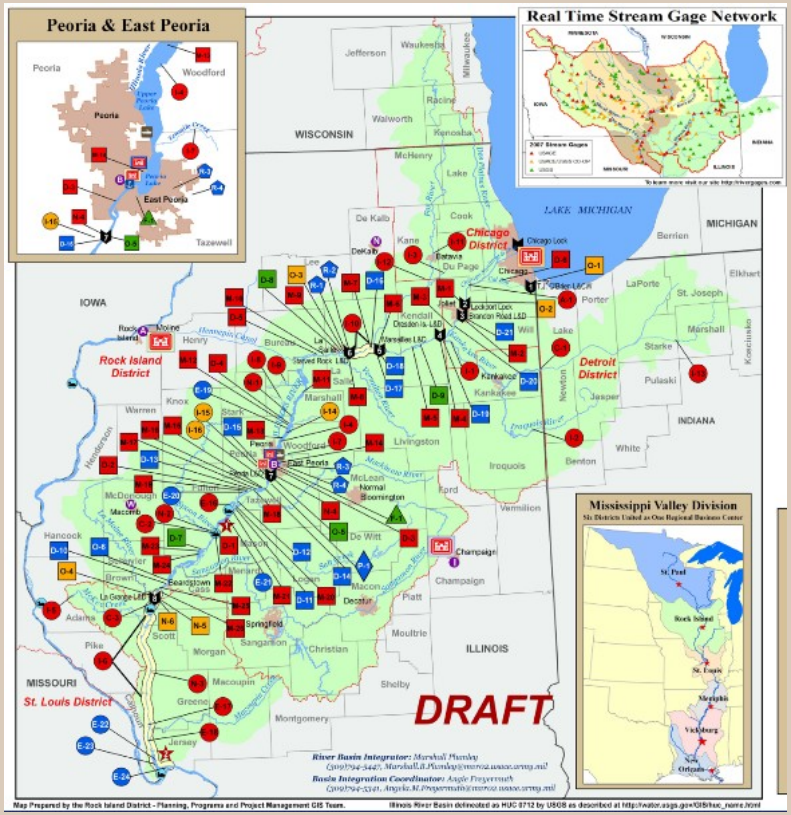
Major Universities

1. University of Wisconsin - Madison
2. Iowa State University
3. University of Iowa
4. Western Illinois University
5. University of Illinois
6. Quad Cities Graduate Center
7. Illinois State University
8. Bradley University

Corps Recreation Sites

State Capitols

Illinois River Basin & Waterway



- **Corps Authorization for the Navigation System Began in the 1930s**
- **Significance: 1 of 3 large floodplain river-systems with potential for restoration**
- **Corps Program:**
  - **Significant Navigation System – 268 miles of navigation channel with 8 locks & dams**
  - **IL River Basin Restoration Program**
  - **Environmental Management Program**
- **Future Concerns: Navigation & Ecosystem Sustainability Program**

How I Remember the Illinois River

A Leader in Integrated Water Resources Management

SERVING FIVE RIVER BASINS IN FIVE STATES

At the Heart of the Upper Mississippi River System

Corps Work on the River

- **Creation of the Illinois & Michigan Canal (1848)**
- **Creation of Locks between the Mississippi River & Lake Michigan (1930s)**
- **Operate & Maintain the Locks & Dams for Navigation (Present)**

Dredged Material Management Program

- **Placement Of Dredged Material In Support Of The Operation & Maintenance Of The Nine-foot Navigation Channel**
- **Least Costly Manner At The Most Practicable Location & Consistent With Engineering & Environmental Requirements**
- **Sites In The Greater Peoria Area: Kingston & Mackinaw**
- **Not Part Of DMMP: A Beneficial Use Site At The Peoria Project Office Used By The City**

Flood Damage Reduction

- **Corps Of Engineers & East Peoria Sanitary District Began Flood Control Program In 1948**
- **The Fondulac & Farmdale Dry Reservoirs Were Built (Late 1940s Early 1950s)**
- **Multi-purpose Projects Are Used For Fish & Wildlife Habitat & Recreation**
- **Researching Dam Safety Issues**

Regulatory

- **Significance: Ensure environmental impacts on aquatic resources are avoided, minimized or mitigated**
- **Corps Program:**
  - **Lead Corps district for regulatory matters in Illinois**
  - **In the past decade, we required development of nearly 10,000 additional wetlands in Iowa & Illinois**

Recreation

- **Significance: Added Benefit To Our Flood Damage Reduction & Navigation Responsibilities**
- **Illinois Waterway Visitor Center Near Starved Rock Lock & Dam In Utica, IL**

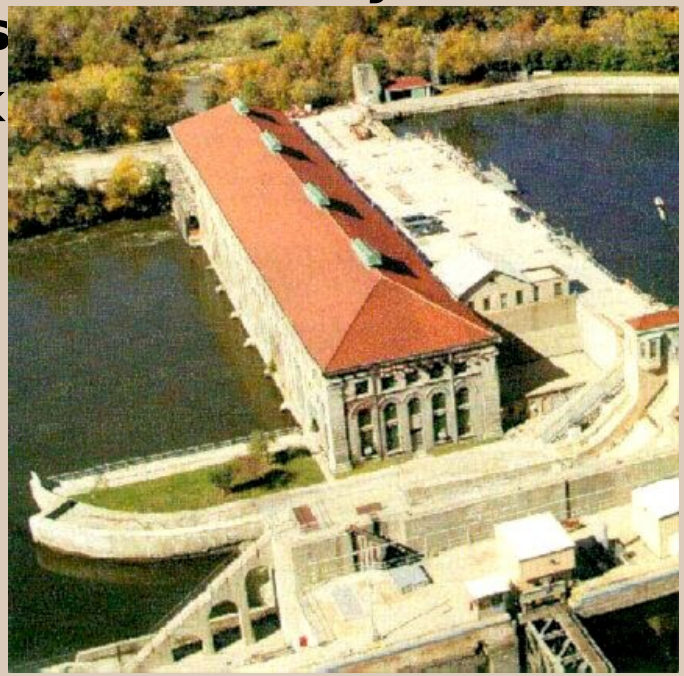
Observation Area, Exhibits, i Theatre, Park Rangers

Tours & Programs Are Conducted By ublic On A Seasonal Schedule & Reservation

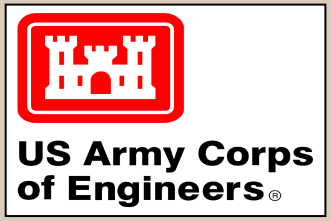
le Provide 836 Acres of Land to Include Many Recreation Trails & 100 Acres of Restored Prairie

Hydropower

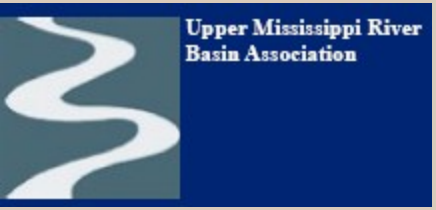
- **Significance: Additional Use For Flood Damage Reduction & Navigation Projects**
- **Our Projects Help Support Privately & Federally Owned Hydropower Plants**
  - **Peru (Starved Rock**
  - **Lockport**



The Corps Vision & Focus



Illinois Rivers 2020



PUBLIC

NGO's

A Leader in Integrated Water Resources Management

SERVING FIVE RIVER BASINS IN FIVE STATES

At the Heart of the Upper Mississippi River System

The Watershed Approach

- **Treats the watershed as a system**
- **Helps puts an end to a collection of unrelated and unconnected Corps (and other) projects**
- **Enables better project integration with our federal, state, and local government; and non-government teammates**
- **Improves transparency, trust and understanding**

Working with the team to produce a better river basin

The Way Ahead

- **Integrated water resources management**
- **Interagency river basin management and business practices effectively balancing national and regional needs**
- **Interagency recreation planning, construction, and management**
- **Balancing needs of many**

The Way Ahead

- **Five regional challenges**
  - **Balance**
  - **Environmental restoration**
  - **Address aging infrastructure**
  - **Responding to disasters**
  - **Improve water resource management**
- **Five-point strategy**
  - **Holistic approach**
  - **Watershed manageme**
  - **Systems approach**
  - **Collaboration**
  - **Achieve efficiencies**

What We Have Accomplished

Ecosystem Restoration

Completed 6 major projects

>22,000 acres of habitat benefited

1 project in design

>6,500 acres of habitat will benefit

>$52,000,000 (total)

Environmental Management Program

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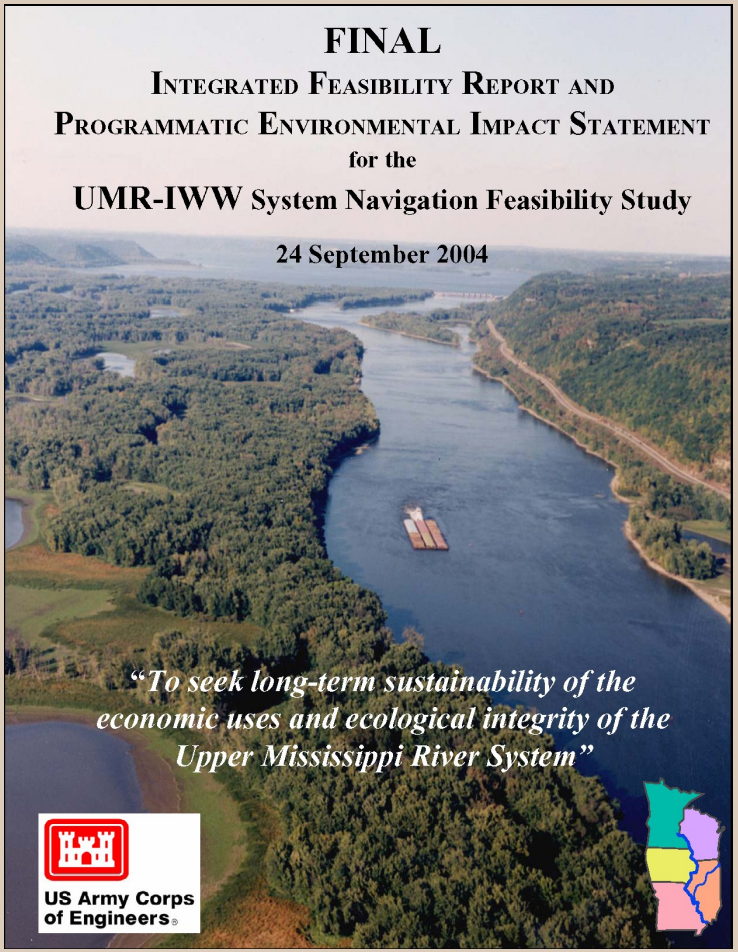
SERVING FIVE RIVER BASINS IN FIVE STATES

At the Heart of the Upper Mississippi River System

Continuing our Commitment


FINAL
INTEGRATED FEASIBILITY REPORT AND
PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT
for the
UMR-IWW System Navigation Feasibility Study
24 September 2004
"To seek long-term sustainability of the economic uses and ecological integrity of the Upper Mississippi River System"
US Army Corps
of Engineers

The Future

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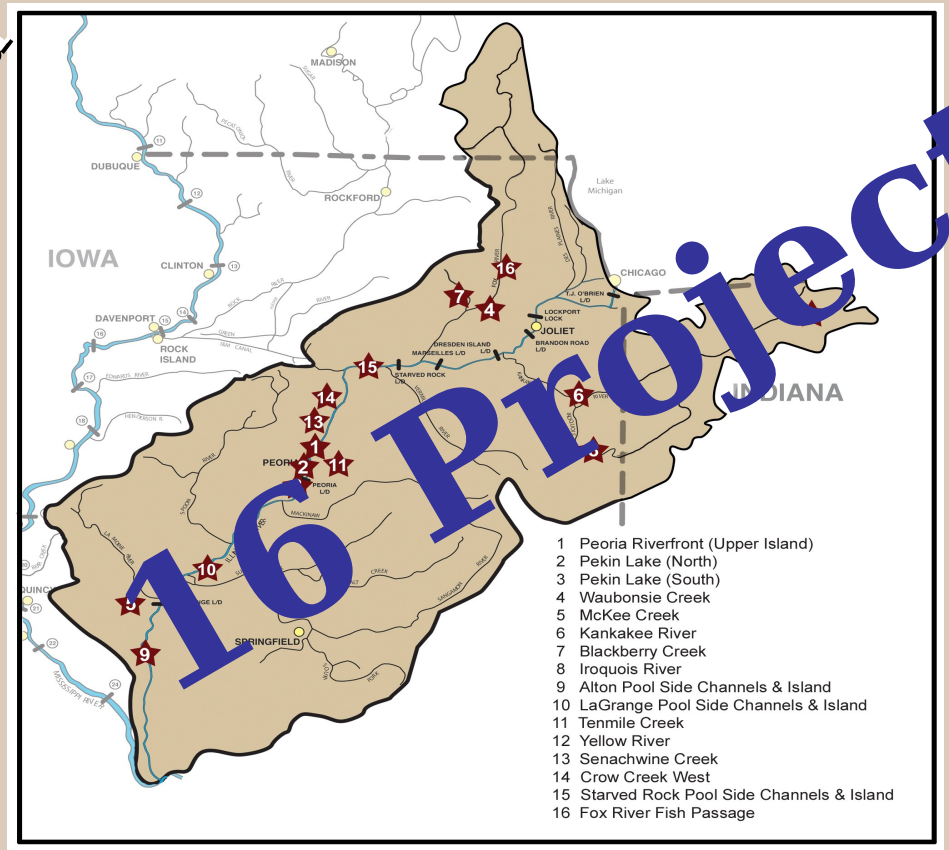
SERVING FIVE RIVER BASINS IN FIVE STATES

At the Heart of the Upper Mississippi River System

Illinois River Basin Restoration

Designed

Peoria Riverfront Upper Island
Pekin Lake (Northern Unit)
Pekin Lake (Southern Unit)
Waubonsie Creek
McKee Creek
Kankakee River
Blackberry Creek
Iroquois River
Alton Pool - Channel & Island
LaGrange Pool – Channel & Island
Tenmile Creek
Yellow River
Senachwine Creek
Crow Creek West
Starved Rock Pool – Side Chan
Fox River Fish Passage



>$130 million program ($85 million Federal)

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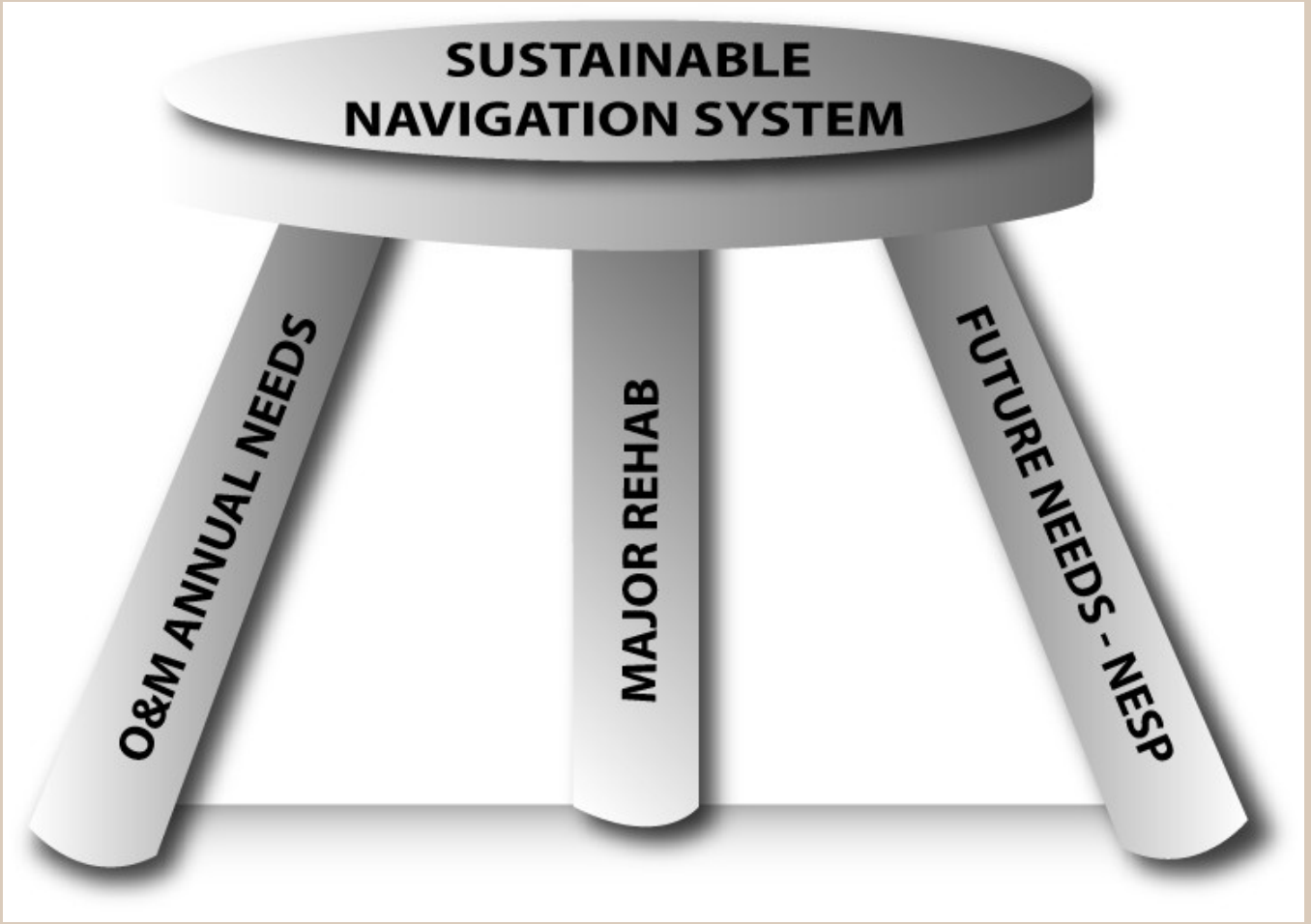
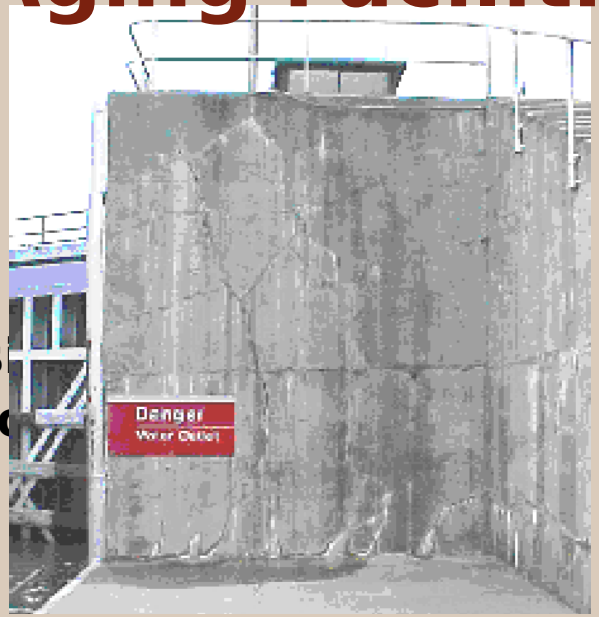
At the Heart of the Upper Mississippi River System

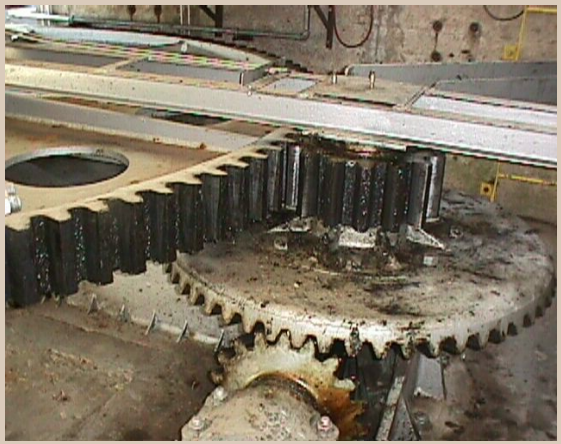

SUSTAINABLE
NAVIGATION SYSTEM
O&M ANNUAL NEEDS
MAJOR REHAB
FUTURE NEEDS - NESP

- **Locks constructed in the 1930's**
- **Projected life span of 50 years**
- **Pictured here: Locks & Dam 15 under construction in 1930's (70 years ago)**

Aging Facilities

- Freeze / Thaw
- Ice
- Corrosion
- Fatigue / Use
- Barge Impacts/Abras
- Concrete Deteriorati





Operations & Maintenance → Major Rehabilitation

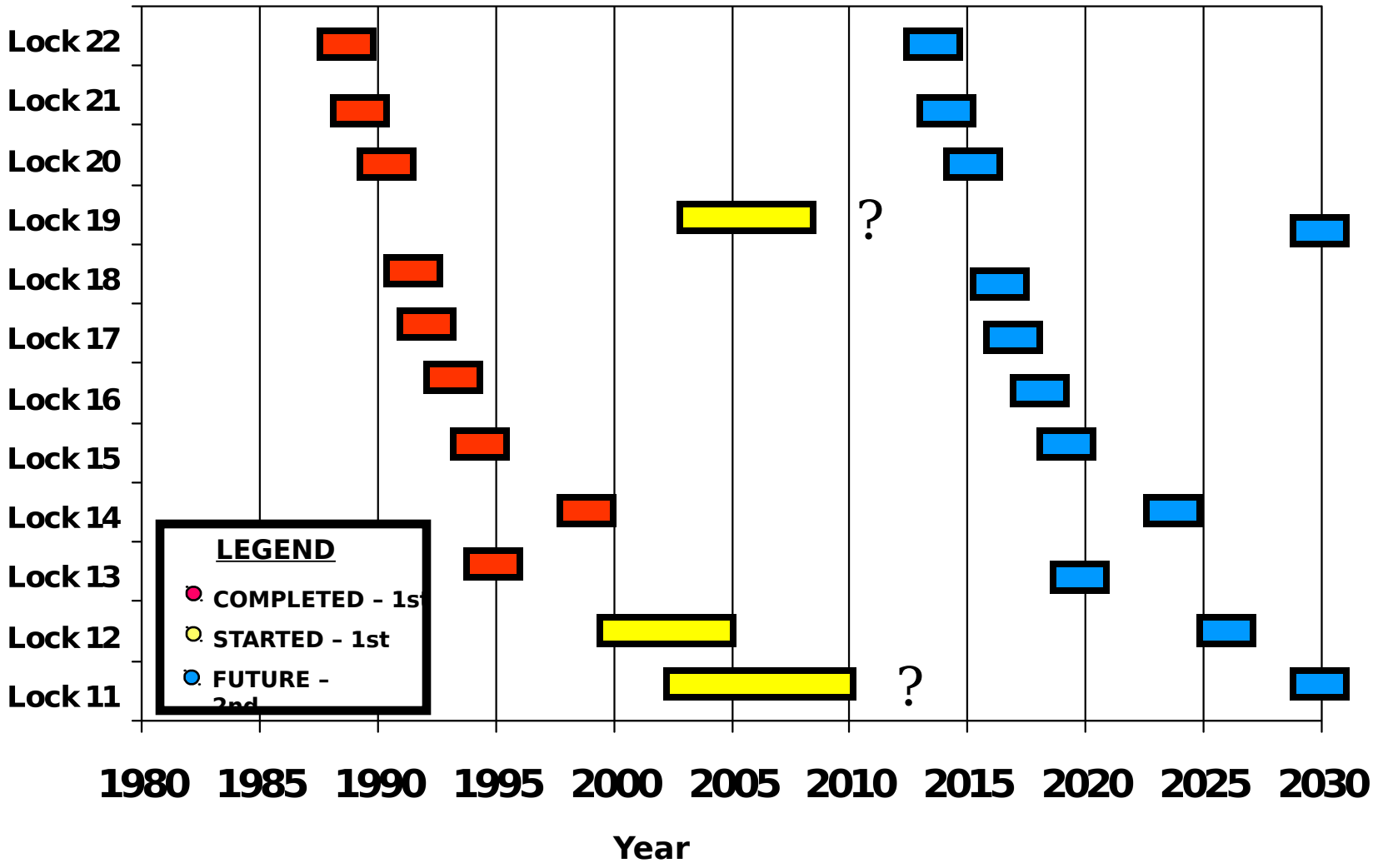
- **Repairs To Keep The Locks Operating Reliably Are Increasing As They Age**

- **For Major Structural Repairs & Replacements, The Major Rehabilitation Program Provides CG/TF Funding**

Current & Upcoming Rehabilitation Projects On The Illinois Waterway

- **Peoria Lock & Dam – Repairing Lock Hydraulic Machinery**
- **Lockport Lock & Dam – Upcoming Dike and Wall Repairs, Power House & Controlling Works Upgrades**
- **Brandon Road Lock & Dam – Upcoming Head Gate Replacement**
- **Starved Rock Lock & Dam – Upcoming Major Rehabilitation**
- **LaGrange Lock & Dam – Upcoming Major Rehabilitation**

Schedule of Major Rehabilitations
Upper Mississippi River in Rock Island District



Navigation and Ecosystem Sustainability Program

- **Two modern locks at Peoria and LaGrange (no new dams). Completion date is beyond 2025**
- **Additional mooring cells and navigation enhancements (could be completed < 10 years)**
- **Adaptive implementation of several ecosystem restoration projects of less than $25 million each**

Questions?

Artwork is provided to the Rock Island District courtesy of Michael Blaser

www.blaserstudio.com **www.steamboatmikey.com**

expires July 2010